

Amendments to the Claims:

This listing of claims reflects the current status of all claims in the application:

1. (CURRENTLY AMENDED): A negative pressure therapy device, comprising:
 - a screen means for placement within a wound bed;
 - a sealing means adhered over said screen means and wound bed;
 - a vacuum source fluidically communicating with said screen means; [[and]]
 - a gas chromatograph, operable to sense compositional characteristics of unfiltered wound fluid from the wound bed, fluid-compositional-sensing device interposed between said screen means and said vacuum source; source, wherein said gas chromatograph further comprises a photo diode operable in optical proximity to fluids being drawn from the wound bed towards said vacuum source, and wherein the gas chromatograph detects a light frequency as the fluids pass the photo diode;
 - wherein the fluid-compositional-sensing device senses compositional characteristics of unfiltered wound fluid from the wound bed;
 - a computer-processing unit comprising a database that stores light frequencies associated with microorganisms; and
 - a software program operable to compare the light frequency detected by the gas chromatograph with the light frequencies stored in the database.
- 2-4. (CANCELLED).
5. (CURRENTLY AMENDED): The negative pressure therapy device of claim 1 further comprising a collection canister interposed between said screen means and said gas chromatograph, fluid-compositional-sensing device.

6. (CURRENTLY AMENDED): A negative pressure therapy device, comprising:

- a screen means for placement within a wound bed;
- a sealing means adhered over said screen means and wound bed;
- a vacuum source fluidically communicating with said screen means;
- a flexible conduit for communicating between said screen means and said vacuum source;
- a collection canister interposed between said screen means and said vacuum source; and
- a fluid-compositional-sensing-device-for-detecting-infection;
wherein the fluid-compositional-sensing-device-senses a sensor array, operable to sense compositional characteristics of unfiltered wound fluid from the wound bed, interposed between said screen means and said vacuum source, wherein said compositional characteristics are indicative of [[said]] infection within the wound, wound and include a presence of at least one of a bacterium or an antigen, wherein the sensor array comprises regions of nonconducting organic material, and wherein the sensor array further comprises regions of conducting organic material compositionally different than the nonconducting organic material.

7. (CURRENTLY AMENDED): The negative pressure therapy device of claim 6 wherein said sensor array fluid-compositional-sensing-device is embedded within said screen means.

8. (CURRENTLY AMENDED): The negative pressure therapy device of claim 6 wherein said sensor array fluid-compositional-sensing-device is disposed on said sealing means, such that said sensor array fluid-compositional-sensing-device is in contact with said screen means.

9. (CURRENTLY AMENDED): The negative pressure therapy device of claim 6 wherein said sensor array fluid-compositional-sensing-device is disposed within said collection canister.

10. (PREVIOUSLY PRESENTED): The negative pressure therapy device of claim 6 further comprising a flexible conduit for communicating between said screen means and said vacuum source.

11-20. (CANCELLED).

21. (NEW): The negative pressure therapy device of claim 1, wherein the microorganisms include at least one of a bacterium or an antigen.

22. (NEW): The negative pressure therapy device of claim 1, further comprising:
a display operable to transmit at least one of an audible or visual notification if the software program identifies a match between the light frequency detected by the gas chromatograph and at least one of the light frequencies stored in the database.

23. (NEW): The negative pressure therapy device of claim 1, further comprising:
a filtration mechanism, the gas chromatograph interposed between the wound bed and the filtration mechanism.

24. (NEW): The negative pressure therapy device of claim 1, wherein said gas chromatograph is embedded within said screen means.

25. (NEW): The negative pressure therapy device of claim 1, wherein said gas chromatograph is disposed on said sealing means, such that said gas chromatograph is in contact with said screen means.

26. (NEW): The negative pressure therapy device of claim 5, wherein said gas chromatograph is disposed within said collection canister.

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27. (NEW): A negative pressure therapy device, comprising:

a foam pad for placement within a wound bed;

a drape adhered over said foam pad and wound bed;

a vacuum source fluidically communicating with said foam pad;

a collection canister interposed between said foam pad and said vacuum source;

a flexible conduit for communicating between said foam pad and said vacuum source;

a gas chromatograph, operable to sense compositional characteristics of unfiltered wound fluid from the wound bed, interposed between said foam pad and said vacuum source, wherein said gas chromatograph further comprises a photo diode operable in optical proximity to fluids being drawn from the wound bed towards said vacuum source, and wherein the gas chromatograph detects a light frequency as the fluids pass the photo diode;

a filtration mechanism, the gas chromatograph interposed between the wound bed and the filtration mechanism;

a computer-processing unit comprising a database that stores light frequencies associated with microorganisms, wherein the microorganisms include at least one of a bacterium or an antigen;

a software program operable to compare the light frequency detected by the gas chromatograph with the light frequencies stored in the database; and

a display transmitting at least one of an audible or visual notification if the software program identifies a match between the light frequency detected by the gas chromatograph and at least one of the light frequencies stored in the database.

28. (NEW): The negative pressure therapy device of claim 27, wherein said gas chromatograph is embedded within said foam pad.

29. (NEW): The negative pressure therapy device of claim 27, wherein said gas chromatograph is disposed on said drape, such that said gas chromatograph is in contact with said foam pad.

30. (NEW): The negative pressure therapy device of claim 27, wherein said gas chromatograph is disposed within said collection canister.